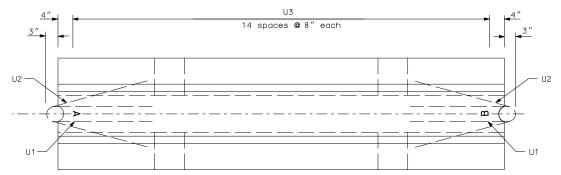
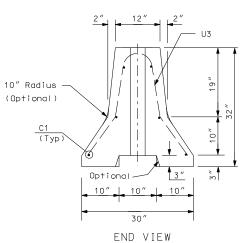
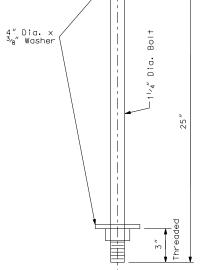


PORTABLE PRECAST CONCRETE MEDIAN BARRIER (TEMPORARY USAGE)



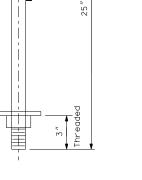
TOP VIEW





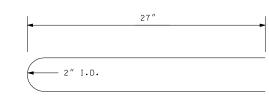
9'- 4"

C1



Notes:

CONNECTING BOLT (One per 10 ft. section)



All exposed hardware shall be galvanized as per ASTM A153, except for the loop inserts.

4. Barrier ends shall be imprinted A and B as shown with 4 inch letters. Field placement shall match the A end with the B end.

7. Barrier shall be placed such that openings between individual sections shall be kept to a minimum.

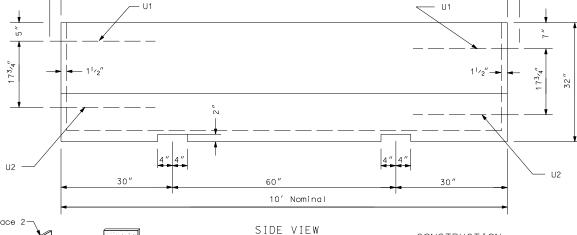
Barrier sections shall be connected together with the 1½ dia. A-307 double hex connecting bolt. The bottom nut and washer connection shall be maintained by the contractor for the duration of the barrier installation.

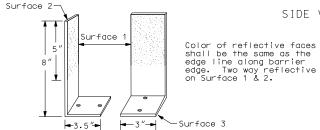
3. All steel shall conform to Section 612.

5. Barrier markers shall be placed at the center of the barrier at 20' centers.

2. Concrete shall be Class AAE-3.

U1





BARRIER MARKER

MARKER BODY
The marker shall be made of a high impact, weatherable engineering thermo-plastic material which conforms to the following:

PROPERTY	RESULT	ASTM TEST METHOD
Thickness (min)	.090"	
Tensile strength (min psi) @ yield	5,500	D638
Impact strength @ -20°F (ft-lbs/in of notch)	3.2	D256 Method A
Impact strength @ 73°F (ft-lbs/in of notch)	14.0	D256 Method A
Flexural strength, PSI 1/4" @ 73°F	8,000	D790
Flexural modulus, PSI	300,000	D790
Elongation @ yield	30%	D638

REFLECTIVE TAPE

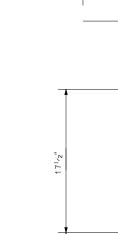
The reflector shall be a retroreflective, acrylic microprism material with acrylic backing, 3" wide, providing the following minimum optical performance with an observation angle of 0.1' measured in candle power: candlepower:

CONSTRUCTION

ENTRANCE ANGLE	SPECIFIC INTENSITY	
Yellow -4"	136	
White -4"	200	

ADHESIVE

Markers shall be temporarily mounted to the portable concrete barrier with factory applied solid butyl rubber 'v₈" thick, 2" wide on 2'₄" wide release paper on surface 3.



-Double Hex Connection Bolt l√4″ Dia. Connecting Bolt

-Nut and Washer Min. 4" O.D. Washer \³/8["] Min. thickness

BAR LIST				
MARK	SIZE	NO.	LENGTH	SHAPE
C1	4	6	9'- 4"	STRAIGHT
U1	4	2	4'-8"	BENT
U2	4	2	4'- 101/4"	BENT
U3	4	15	5'- 4"	BENT

DAP DETAIL

73/4" I.D. 13"

27" — 2″ I.D.

U2

NORTH DAKOTA			
DEPARTMENT OF TRANSPORTATION			
10-24-00			
REVISIONS			
DATE	CHANGE		
11-17-00	Dimensions &		
	Note 4		
12-01-04	PE Stamp added		

This document was originally issued and sealed by MARK S GAYDOS, Registration Number PE-4518, on 12/01/04 and the original document is stored at the North Dakota Department of Transportation